

Case 460 : Narrative

Case Vehicle (A): 2003 BMW
Type: Z4, 2-door convertible
Driver: 19-year-old male
CDC: 12-FYEW-2

SITUATION

[1](#) [2](#) It was early morning and dark, the sky was cloudy, and the unlit north-south asphalt road surface with a posted speed limit of 20 mph (32 kph) was dry and in good condition. [3](#) [4](#) Case vehicle (A) was traveling north at an unknown speed in the northbound lane and, [5](#) [6](#) as it rounded a curve to the left, the vehicle exited the right side of the road and went over a small curb. [7](#) [8](#) [9](#) The vehicle traveled approximately 37 meters until the front struck a 68-cm diameter tree located 8 meters east of the road edge. After the impact, case vehicle (A) rotated counterclockwise and came to rest near the tree facing northwest. The vehicle was towed from the scene due to damage.

The police accident report indicates A-level injuries for the driver and no injuries for the right-front passenger of case vehicle (A). The driver was transported to a level-one trauma facility and hospitalized for four days.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[10](#) [11](#) Damage to the front of case vehicle (A) was severe. [12](#) Direct damage began at the left-front bumper corner and extended 78-cm across the front, resulting in 52% vehicle overlap (%VOL). The maximum rearward crush was 47 cm and it occurred near the vehicle centerline at bumper level.

[13](#) [14](#) [15](#) [16](#) [17](#) Using the WinSMASH crash-reconstruction program and a crush profile for case vehicle (A), the following impact severity was estimated for the frontal impact with the tree:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	38 (24)	-38 (-23)	7 (4)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

[18](#) In the front, the center of the bumper was crushed rearward, which pulled the left and right bumper corners inward, the bumper-reinforcement bar was crushed rearward into the engine compartment and radiator, and the [19](#) bumper cover was completely separated from its attachments. [20](#) [21](#) Both headlight assemblies were shattered, the front of the hood was crushed rearward causing the hood latch to be

damaged, at the hood was deflected up in the middle. The entire hood was shifted to the right, [22](#) [23](#) both hood hinges were bent up, and the [24](#) rear edge of the hood was elevated. There were two star-shaped cracks in the center and the left sections of the windshield from internal contacts by the rearview mirror and the driver, [25](#) and there were cracks radiating across the entire windshield.

[26](#) [27](#) On the left side, the fender was deformed and pulled to the left. [28](#) The axle was broken, the left-front wheel was deflected out and pushed rearward, the left-front tire was flat, and the left wheelbase was reduced by 11 cm. [29](#) [30](#) There was no other damage to the left side of the vehicle.

[31](#) On the right side, the fender was deformed and pulled slightly to the left. [32](#) [33](#) There was no other damage to the right side but the right wheelbase was increased by 3 cm.

[34](#) [35](#) In the rear of the vehicle, the bumper cover was bent down and pulled away from its top-left attachment, but this damage does not appear to be related to the frontal collision with the tree.

Interior

[36](#) This vehicle was equipped with steering-wheel, dash-mounted, [37](#) [38](#) and knee-bolster frontal-impact airbags, and all of these airbags deployed in the frontal impact with the tree. The vehicle was also equipped with door-mounted side-impact airbags but they did not deploy.

[39](#) In the driver seating area, there was no damage to the deployed steering-wheel airbag but there were bloodstains on the upper-right quadrant of the fabric. [40](#) [41](#) [42](#) [43](#) The top half of the steering-wheel rim was scuffed and bent slightly forward, but [44](#) there was no

rotation of the steering column. [45](#) [46](#) [47](#) There was a dense pattern of circular-shaped cracks in the upper-left section of the windshield from contact by the driver's head, and [48](#) the

upper section of the left A-pillar was displaced rearward. [49](#) The upper-left vent on the driver instrument panel was damaged [50](#) but there was no other damage to the instrument panel. [51](#) [52](#) There was no damage to the deployed knee-bolster airbag. [53](#) [54](#) The toepan was displaced rearward and [55](#) [56](#) the rubber pad was missing from the accelerator pedal, which was bent to the right at the top and cracked and bent to the left at the bottom. In addition, the accelerator throttle rod was protruding through a grommet on the top of the pedal. [57](#) [58](#) There was no damage to the interior of the driver door but there was some tan liquid and dirt on the interior panel and armrest.

[59](#) In the center-front area, the instrument panel was displaced rearward and [60](#) the rearview mirror was cracked from having [61](#) contacted and cracked the center section of the windshield. [62](#) [63](#) There was no damage to the center console/armrest but there were bloodstains on the right side of the console.

[64](#) In the right-front seating area, the A-pillar and the toepan were displaced rearward. [65](#) There was no damage to the deployed dash-mounted airbag but there was dirt on the lower quadrant of the fabric. [66](#) There was no damage to the deployed passenger-side knee-bolster airbag but there were bloodstains on the fabric.

There was no other damage to the interior of case vehicle (A). The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction

driver	A-pillar	2	to rear
	toe pan	6	to rear
center-front	Instrument panel	1	to rear
right-front	A-pillar	1	to rear
	toe pan	10	to rear

OCCUPANT KINEMATICS AND INJURIES

[68](#) [69](#) [70](#) The 175-cm, 68-kg (5-ft 9-in, 150-lb) 19-year-old male driver was not using the three-point belt but the [37](#) steering-wheel and knee-bolster airbags deployed during the frontal

impact. [71](#) There was no evidence of belt use on the belt guide, on the belt webbing, or on [72](#) the continuous loop of the sliding latch plate. During the frontal impact, the driver moved forward relative to the vehicle interior, into the knee-bolster airbag and into and over the steering-wheel airbag. He sustained a closed-head injury with no memory of the collision, and a 17-cm scalp laceration into the galea and the superior aspect to the left-parietal area of the scalp, from head contact with the windshield, [45](#) [46](#) [47](#) as evidenced by a dense pattern of circular-shaped cracks in the upper-left section of the windshield. He sustained open fractures to the right trimalleolar and a disruption of the distal right tibio-fibular ligament from right foot contact with the accelerator pedal and toe pan, [53](#) [54](#) [55](#) [56](#) as evidenced by damage to the pedal.

[73](#) [74](#) [75](#) The 180-cm, 58-kg (5-ft 11-in, 128-lb) 22-year-old male right-front passenger was using the three-point belt with a pretensioner that was activated, and the dash-mounted and knee-bolster airbags deployed during the frontal impact. [76](#) Loading marks on the belt guide and [77](#) on the continuous loop of the latch plate indicate belt use at the time of the crash. During the frontal impact, the right-front passenger moved forward relative to the vehicle interior, into the belt restraints and the knee-bolster and dash-mounted airbags. He sustained a laceration to an unspecified region of one knee from an unknown source.

The following tables and [78](#) [79](#) attached drawings summarize the injuries sustained by the driver and the right-front passenger of case vehicle (A).

Occupant: Driver		Age: 19 years		Gender: Male	
Restraints: Steering-wheel and knee-bolster airbags		Stature: 175 cm (5 ft, 9 in)		Mass: 68 kg (150 lb)	
Injury Description		A.I.S.	Injury Source		
—		—	Definite	Probable	Possible
Closed head injury with amnesia to the collision		2	Windshield	—	—
17-cm laceration into the galea and superior aspect of the left parietal scalp		2	Windshield	—	—
Open fractures, right trimalleolar		3	Accelerator pedal/toe pan	—	—
Disruption of the distal right tibio-					

fibular ligament	2	Accelerator pedal/toepa	—	—
Maximum A.I.S. Level	3	—	—	—
Injury Severity Score	13	—	—	—

Occupant: Right front	Age: 22 years	Gender: Male		
Restraints: 3-point belt with pretensioner; dash-mounted and knee-bolster airbags	Stature: 180 cm (5 ft, 11 in)	Mass: 58 kg (128 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Laceration, unknown aspect of one knee	1	Unknown	—	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

CASE NO.: 460

CASE VEHICLE: 2003 BMW

TYPE: Z4, 2-door convertible

OCCUPANT: (Driver) 19-year-old male

STATURE: 175 cm (5 ft, 9 in) MASS: 68 kg (150 lb)

RESTRAINTS: Steering-wheel and knee-bolster airbags

SEVERITY: MAIS - 3 ISS - 13

Closed head injury
with amnesia to the collision
(2)

17-cm laceration into the
galea, superior to left parietal
area of scalp
(2)

Disruption of the
distal right tibio-fibular
ligament
(2)

Open fractures,
right trimalleolar
(3)



CASE NO.: 460

CASE VEHICLE: 2003 BMW

TYPE: Z4, 2-door convertible

OCCUPANT: (Right front) 22-year-old male

STATURE: 180 cm (5 ft, 11 in) MASS: 58 kg (128 lb)

RESTRAINTS: 3-point belt with pretensioner; dash-mounted
and knee-bolster airbags

SEVERITY: MAIS - 1 ISS - 1

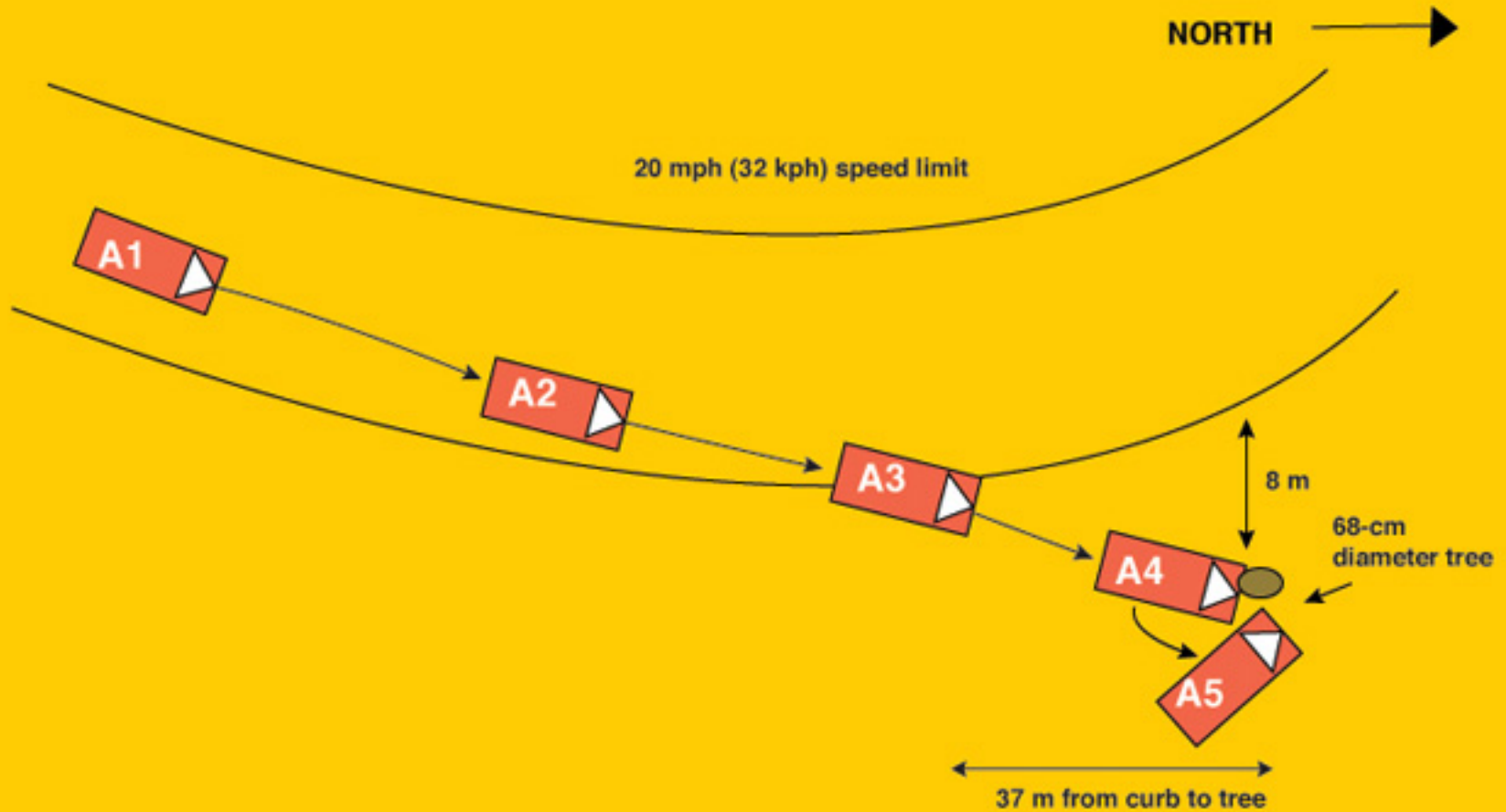


Laceration, knee
unknown aspect
(1)



Case No.: 460
Case Veh. (A): 2003 BMW
Type: Z4, 2-door convertible
Driver: 19-year-old male

Weather: Cloudy
Road Surface: Dry
Road Construction: Asphalt
Light Condition: Dark/unlighted



Case 460: Vehicle Report

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General Information

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0204	Collision Hour	0210	Time of day (24 hour clock)	more
V0205	State Fips Code	26	Michigan	more
V0206	Urban/rural Area	1	Urban	more
V0207	Limited Access Highway	0	No	more
V0208	Road Total Lanes	2	2 lanes	more
V0209	Intersect Road Total Lanes	8	Not applicable	more
V0210	Trafficway Flow	0	Not physically divided - two way traffic	more
V0211	Road Surface Type	1	Asphalt	more
V0212	Road Defects	0	No	more
V0213	Construction Zone	0	No	more
V0214	Road Alignment Vertical Plane	1	Level	more

V0215	Road Alignment Horizontal Plane	2	Curve	more
V0216	Surface Covering	10	Dry	more
V0217	Visibility Limitation	0	None	more
V0218	Visibility Obstruction	0	None	more
V0219	Speed Limit	0	5-45 km/h .. 5-25 mph	more
V0220	Precipitation Type	0	None	more
V0221	Precipitation Rate	8	Not applicable	more
V0222	Temperature	5	6 to 15 C .. 42 to 59 F	more
V0223	Crosswind	9	Unknown	more
V0224	Light Conditions	5	Dark, unlighted	more
V0225	Mechanical Malfunction Mention	0	No	more
V0226	Case Vehicle And Object	4	Yes, fixed object off-road	more
V0227	Case Vehicle Rollover	0	No	more
V0228	Rollover Location	0	No rollover	more
V0229	Roll Direction	0	No rollover	more
V0230	Rollover Initiation Type	0	No rollover	more
V0231	Rollover Number Of Turns	0	No rollover	more
V0232	Case Vehicle Preimpact Braking	0	No	more
V0233	Case Vehicle Preimpact Stability	1	Case vehicle tracking before impact	more
V0234	Case Vehicle Ran Off Roadway	1	Yes	more
V0235	Moving Case Vehicle Contacted Moving Vehicle	0	No	more
V0236	Case Vehicle Contacted Stopped Vehicle	0	No	more
V0237	Stopped Case Vehicle Contacted Vehicle	0	No	more
V0238	Total Vehicles Hit By Case Vehicle	0	0 vehicles	more
V0239	Any Fire In Crash?	0	No	more
V0240	Maximum Police Severity-acc	3	A - Incapacitating Injury	more
V0241	Driver Alcohol Involvmnt	1	Had been drinking	more
V0242	Driver Alcohol BAC (Case Vehicle)	80	No test	more
V0243	Driver Impairment Mention	1	Yes	more
V0244	Driver Distraction	99	Unknown	more

V0245	Driver Drug Involvement	0	None	more
V0246	Driver Drug Type	0	No drug use	more
V0247	Driven/towed From Scene	2	Towed Due to Damage	more

Other Vehicle

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0301	Other Vehicle VIN	0 xxxxxxx	—	more
V0302	Other Vehicle Manufacturer/Body Code	99898	—	—
V0303	Other Vehicle Manufacturer	998	Unknown Other Vehicle	more
V0304	Other Vehicle Body Code	98	No Other Vehicle	more
V0305	Other Vehicle Make/model	0000	No other vehicle	more
V0306	Other Vehicle Model Year	00	Year	more
V0307	Other Vehicle Mass	000000 kg	No Other Vehicle	more
V0308	Other Vehicle Number	8	No other vehicle	more
V0309	Other Vehicle Number of Occupants	98	No Other Vehicle	more
V0310	Other Vehicle Traveling Speed	990	No Other Vehicle	more
V0311	Highest Police Injury Severity	8	No Other Vehicle	more
V0312	Other Vehicle Type	98	No Other Vehicle	more
V0313	Other Vehicle Wheelbase in Centimeters	998	No Other Vehicle	more
V0314	Other Vehicle Average Track Width	998	No Other Vehicle	more
V0315	Other Vehicle Overall Length	998	No Other Vehicle	more
V0316	Other Vehicle Overall Width (OAW)	998	No Other Vehicle	more
V0317	Other Vehicle Front Overhang	998	No Other Vehicle	more
V0318	Other Vehicle Rear Overhang	998	No Other Vehicle	more
V0319	Other Vehicle Undeformed End Width (UEW)	998	No Other Vehicle	more
V0320	Other Vehicle Engine Displacement	0.0 l	No Other Vehicle	more
V0321	Other Vehicle Engine: Number of Cylinders	98	No Other Vehicle	more

V0322	Other Vehicle Direct Damage Length (DDL)	998	No Other Vehicle	more
V0323	Other Vehicle Front-End Overlap	99	Missing or Not applicable	more
V0324	Other Vehicle - Vehicle Overlap	99	Missing or Not applicable	more

Case Vehicle General

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0401	VIN	4USBT53413XXXXXX	Click for Case Vehicle figure	more
V0402	Manufacturer/Body Code	67126	—	—
V0403	Vehicle Manufacturer	671	BMW	more
V0404	Vehicle Body Code	26	Sub-Compact 95-99.9 in. wb.	more
V0405	Make/model Code	5020	BMW Z4 Convertable	more
V0406	Model Year	2003	Model year	more
V0407	Vehicle Mass	001360 kg	Mass (Kg)	more
V0408	Odometer Reading	888888	—	—
V0409	Number of Occupants	02	2 occupants	more
V0410	Traveling Speed	999	Unknown	more
V0411	Body Type	16	Convertible	more
V0412	Stolen Vehicle	8	Not currently collected	more
V0413	Body Structure	2	Unitized	more
V0414	Transmission Type	1	Automatic	more
V0415	Transmission Lever Location	1	Floor	more
V0416	Steering	1	Power	more
V0417	Brakes	1	Power	more
V0418	Brake Type	3	Disc - all wheels	more
V0419	Adjustable Pedals?	0	No	more
V0420	Brake Anti-lock Device	2	Four-wheel	more
V0421	Air Conditioning in Vehicle	8	Not currently collected	more
V0422	Drive Type	1	Rear wheel	more
V0423	Dual Rear Wheels	0	No	more
V0424	Original Restraint System Type	3	Air bag	more
	Equipped With Roll	1		

V0425	Bar		Yes	more
V0426	Roof Type	7	Convertible open	more
V0427	Case Vehicle Wheelbase in Centimeters	249 cm	Actual Wheelbase	more
V0428	Anti-lacerative Glass	8	Not Collected	more
V0429	Case Vehicle average track Width	150 cm	actual measurement (cm)	more
V0430	Case Vehicle Overall Length	409 cm	actual measurement (cm)	more
V0431	Case Vehicle Overall Width (OAW)	178	actual measurement (cm)	more
V0432	Case Vehicle Front Overhang	082 cm	actual measurement (cm)	more
V0433	Case Vehicle Rear Overhang	078 cm	actual measurement (cm)	more
V0434	Case Vehicle Undeformed End Width (UEW)	148 cm	actual measurement (cm)	more
V0435	Case Vehicle Engine Displacement	3.0 l	Liters	more
V0436	Case Vehicle Engine: Number of Cylinders	06	number of cylinders	more
V0437	Case Vehicle Direct Damage Length (DDL)	078 cm	actual measurement (cm)	more
V0438	Case Vehicle Front-end Overlap	53	percentage (%)	more
V0439	Case Vehicle - Vehicle Overlap	52	percentage (%)	more

Case Vehicle Damage Description

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0501	Maximum Sheet Metal Crush - Front	047 cm	Depth of Crush (cm)	more
V0502	Maximum Sheet Metal Crush - Right Side	000 cm	No Crush (or less than 1 cm.)	more
V0503	Maximum Sheet Metal Crush - Rear	000 cm	No Crush (or less than 1 cm.)	more
V0504	Maximum Sheet Metal Crush - Left Side	000 cm	No Crush (or less than 1 cm.)	more
	Maximum Sheet Metal Crush			

V0505	- Roof	000 cm	No Crush (or less than 1 cm.)	more
V0506	Maximum Sheet Metal Crush - Other	000 cm	No Crush (or less than 1 cm.)	more
V0507	Seq In Chronological Ord	1	Yes	more
V0508	Event 1 -impact Location	4	Outside Roadside right-of-way	more
V0509	Event 1 -Impact Configuration	17	FRONT of case veh - object	more
V0510	Event 1 -Object/Vehicle Contactd	77	Sign post, utility pole, tree	more
V0511	Event 2 -impact Location	8	No 2nd event	more
V0512	Event 2 -Impact Configuration	88	No 2nd event	more
V0513	Event 2 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0514	Event 3 -impact Location	8	No 3rd event	more
V0515	Event 3 -Impact Configuration	88	No 3rd event	more
V0516	Event 3 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0517	Event 4 -impact Location	8	No 4th event	more
V0518	Event 4 -Impact Configuration	88	No 4th event	more
V0519	Event 4 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0520	Event 5 -impact Location	8	No 5th event	more
V0521	Event 5 -Impact Configuration	88	No 5th event	more
V0522	Event 5 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0523	Event 6 -impact Location	8	No 6th event	more
V0524	Event 6 -Impact Configuration	88	No 6th event	more
V0525	Event 6 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0526	Event 7 -impact Location	8	No 7th event	more
V0527	Event 7 -Impact Configuration	88	No 7th event	more
V0528	Event 7 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0529	Primary CDC Case Vehicle - event Number	1	Event 1	more
	Primary CDC Case Vehicle -			

V0530	Impact Speed (kph)	999	Unknown	more
V0531	Primary CDC Case Vehicle- estimatr	1	Investigator	more
V0532	Primary CDC Case Vehicle - Crush (CM)	047	Crush measurements in cm	more
V0533	Primary CDC Case Vehicle- clock #1	12	12 o'clock	more
V0534	Primary CDC Case Vehicle- Letter 1 #1	06	F - Front	more
V0535	Primary CDC Case Vehicle- Letter 2 #1	25	Y - Side or end (F + P or L + C)	more
V0536	Primary CDC Case Vehicle- Letter 3 #1	05	E - Everything below belt line	more
V0537	Primary CDC Case Vehicle- Letter 4 #1	23	W - Wide impact area	more
V0538	Primary CDC Case Vehicle - Extent #1	2	—	—
V0539	Primary CDC - Contacted Vehicles Assoc CDC - CDC #1	12FYEW2	—	—
V0540	Primary CDC Case Vehicle- clock #2	98	Not Applicable	more
V0541	Primary CDC Case Vehicle- Letter 1 #2	00	Missing Data/Not applicable	more
V0542	Primary CDC Case Vehicle- Letter 2 #2	00	Missing Data/Not applicable	more
V0543	Primary CDC Case Vehicle- Letter 3 #2	00	Missing Data/Not applicable	more
V0544	Primary CDC Case Vehicle- Letter 4 #2	00	Missing Data/Not applicable	more
V0545	Primary CDC Case Vehicle - Extent #2	0	—	—
V0546	Primary CDC - Case Vehicle Assoc CDC - CDC #2	9800000	—	—
V0547	Primary CDC Contacted Vehicle - Impact Speed (kph)	998	Not Applicable	more
V0548	Primary CDC Contacted Vehicle-estimator	8	Not applicable (no vehicle/no impact)	more
V0549	Primary CDC Contacted Vehicle - Crush (CM)	998	Not Applicable	more
V0550	Primary CDC Contacted Vehicle-clock #1	98	Not Applicable	more
V0551	Primary CDC Contacted	00	Missing Data/Not applicable	more

	Vehicle-Letter 1 #1			
V0552	Primary CDC Contacted Vehicle-Letter 2 #1	00	Missing Data/Not applicable	more
V0553	Primary CDC Contacted Vehicle-Letter 3 #1	00	Missing Data/Not applicable	more
V0554	Primary CDC Contacted Vehicle-Letter 4 #1	00	Missing Data/Not applicable	more
V0555	Primary CDC Contacted Vehicle - Extent #1	0	—	—
V0556	primary CDC - Contacted Vehicles Assoc CDC - CDC #1	98000000	—	—
V0557	Primary CDC Contacted Vehicle-clock #2	98	Not Applicable	more
V0558	Primary CDC Contacted Vehicle-Letter 1 #2	00	Missing Data/Not applicable	more
V0559	Primary CDC Contacted Vehicle-Letter 2 #2	00	Missing Data/Not applicable	more
V0560	Primary CDC Contacted Vehicle-Letter 3 #2	00	Missing Data/Not applicable	more
V0561	Primary CDC Contacted Vehicle-Letter 4 #2	00	Missing Data/Not applicable	more
V0562	Primary CDC Contacted Vehicle - Extent #2	0	—	—
V0563	Primary CDC - Contacted Vehicles Assoc CDC - CDC #2	98000000	—	—
V0564	Secondary CDC Case Vehicle-event No	8	Not applicable	more
V0565	Secondary CDC Case Vehicle - Impact Speed (kph)	998	Not Applicable	more
V0566	Secondary CDC Case Vehicle-estimator	8	Not applicable (no vehicle/no impact)	more
V0567	Secondary CDC Case Vehicle - Crush (CM)	998	Not Applicable	more
V0568	Secondary CDC Case Vehicle-clock #1	98	Not Applicable	more
V0569	Secondary CDC Case Vehicle-Letter 1 #1	00	Missing Data/Not applicable	more
V0570	Secondary CDC Case Vehicle-Letter 2 #1	00	Missing Data/Not applicable	more
V0571	Secondary CDC Case Vehicle-Letter 3 #1	00	Missing Data/Not applicable	more

V0572	Secondary CDC Case Vehicle-Letter 4 #1	00	Missing Data/Not applicable	more
V0573	SECONDARY CDC CASE VEHICLE - EXTENT #1	0	—	—
V0574	Secondary CDC - Case Vehicle Assoc CDC - CDC #1	9800000	—	—
V0575	Secondary CDC Case Vehicle-clock #2	98	Not Applicable	more
V0576	Secondary CDC Case Vehicle-Letter 1 #2	00	Missing Data/Not applicable	more
V0577	Secondary CDC Case Vehicle-Letter 2 #2	00	Missing Data/Not applicable	more
V0578	Secondary CDC Case Vehicle-Letter 3 #2	00	Missing Data/Not applicable	more
V0579	Secondary CDC Case Vehicle-Letter 4 #2	00	Missing Data/Not applicable	more
V0580	SECONDARY CDC CASE VEHICLE - EXTENT #2	0	—	—
V0581	Secondary CDC - Case Vehicle Assoc CDC - CDC #2	9800000	—	—
V0582	Secondary CDC Contacted Vehicle - Impact Speed (kph)	998	Not Applicable	more
V0583	Secondary CDC Contacted Vehicle-estimator	8	Not applicable (no vehicle/no impact)	more
V0584	Secondary CDC Contacted Vehicle - Crush (CM)	998	Not Applicable	more
V0585	Secondary CDC Contacted Vehicle-clock #1	98	Not Applicable	more
V0586	Secondary CDC Contacted Vehicle-Letter 1 #1	00	Missing Data/Not applicable	more
V0587	Secondary CDC Contacted Vehicle-Letter 2 #1	00	Missing Data/Not applicable	more
V0588	Secondary CDC Contacted Vehicle-Letter 3 #1	00	Missing Data/Not applicable	more
V0589	Secondary CDC Contacted Vehicle-Letter 4 #1	00	Missing Data/Not applicable	more
V0590	Secondary CDC Contacted Vehicle - Extent #1	0	—	—
V0591	Secondary CDC - Contacted Vehicle Assoc CDC - CDC #1	9800000	—	—
	Secondary CDC Contacted			

V0592	Vehicle-clock #2	98	Not Applicable	more
V0593	Secondary CDC Contacted Vehicle-Letter 1 #2	00	Missing Data/Not applicable	more
V0594	Secondary CDC Contacted Vehicle-Letter 2 #2	00	Missing Data/Not applicable	more
V0595	Secondary CDC Contacted Vehicle-Letter 3 #2	00	Missing Data/Not applicable	more
V0596	Secondary CDC Contacted Vehicle-Letter 4 #2	00	Missing Data/Not applicable	more
V0597	Secondary CDC Contacted Vehicle - Extent #2	0	—	—
V0598	Secondary CDC - Contacted Vehicle Assoc CDC - CDC #2	98000000	—	—

Crash Reconstruction

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0601	Primary Delta-V Case Vehicle-event #	1	Event number 1	more
V0602	Primary Delta V Case Vehicle - Total Delta V	038 kph	kph	more
V0603	Primary delta-V Case Vehicle -LONGITUD	-038	—	—
V0604	Primary delta-V Case Vehicle-Lateral	0007	—	—
V0605	Primary Delta V Case Vehicle - Energy Dissipated by Crush (k	0957	—	—
V0606	Primary Delta-V Case Vehicle-Reconstruction	22	Reconstructed, moderate confidence level	more
V0607	Primary Delta-V Case Vehicle- Mode	2	CDC & detailed damage	more
V0608	Primary Delta V Contacted Vehicle - Total Delta V	888	Not Applicable	more
V0609	Primary delta-V Contacted Vehicle-LONGITUD	8888	—	—
V0610	Primary delta-V Contacted Vehicle-Lateral	8888	—	—
V0611	Primary delta-V Contacted Vehicle - Energy Dissipated by Cru	8888	—	—

V0612	Secondary Delta-V Case Vehicle-event #	8	Not applicable	more
V0613	Secondary Delta V Case Vehicle - Total Delta V	888	Not applicable	more
V0614	Secondarydelta-V Case Vehicle -LONGITUD	8888	—	—
V0615	Secondary delta-V Case Vehicle-Lateral	8888	—	—
V0616	Secondary delta-V Case Vehicle - Energy Dissipated by Crush	8888	—	—
V0617	Secondary Delta-V Case Vehicle-Reconstruction	88	Not applicable	more
V0618	Secondary Delta-V Case Vehicle- Mode	8	Not applicable	more
V0619	Secondary Delta V Contacted Vehicle - Total Delta V	888	Not applicable	more
V0620	Secondary delta-V Contacted Vehicle-LONGITUD	8888	—	—
V0621	Secondary delta-V Contacted Vehicle-Lateral	8888	—	—
V0622	Secondary delta-V Contacted Vehicle - Energy Dissipated By C	8888	—	—
V0623	Primary EBS Case Vehicle-event #	1	Event number 1	more
V0624	Primary EBS Case Vehicle - Total EBS	038 kph	kph	more
V0625	Primary EBS Case Vehicle - LONGITUD	-038	—	—
V0626	Primary EBS Case Vehicle-Lateral	0007	—	—
V0627	Primary EBS Case Vehicle - Energy Dissipated by Crush (kj)	0957	—	—
V0628	Primary EBS Case Vehicle-Reconstruction	22	Reconstructed, moderate confidence level	more
V0629	Primary EBS Case Vehicle-Mode	2	CDC & detailed damage	more
V0630	Primary EBS Contacted Vehicle - Total EBS	888	Not Applicable	more
V0631	Primary EBS Contacted Vehicle-LONGITUD	8888	—	—
	Primary EBS Contacted			

V0632	Vehicle-Lateral	8888	—	—
V0633	Primary EBS Contact Vehicle - Energy Dissipated by Crush (kj)	8888	—	—
V0634	Secondary EBS Case Vehicle-event #	8	Not applicable	more
V0635	Secondary EBS Case Vehicle - Total EBS	888	Not Applicable	more
V0636	Secondary EBS Case Vehicle -LONGITUD	8888	—	—
V0637	Secondary EBS Case Vehicle-Lateral	8888	—	—
V0638	Secondary EBS Case Vehicle - Energy Dissipated by Crush (kj)	8888	—	—
V0639	Secondary EBS Case Vehicle-Reconstruction	88	Not applicable	more
V0640	Secondary EBS Case Vehicle- Mode	8	Not applicable	more
V0641	Secondary EBS Contacted Vehicle - Total EBS	888	Not Applicable	more
V0642	Secondary EBS Contacted Vehicle-LONGITUD	8888	—	—
V0643	Secondary EBS Contacted Vehicle-Lateral	8888	—	—
V0644	Secondary EBS Contact Vehicle - Energy Dissipated by Crush (8888	—	—
V0645	Specific Event # Case(1)	1	Event number 1	more
V0646	Plane of Impact Case Vehicle (1)	1	Bumper	more
V0647	Direct Damage Length (DDL) - Case Vehicle (1)	078 cm	cm	more
V0648	Direct Damage Maximum Crush - Case Vehicle (1)	047 cm	cm	more
V0649	Direct and Induced Damage Length in CM	097 cm	cm	more
V0650	Field C1 - Case Vehicle (1)	027 cm	cm	more
V0651	Field C2 - Case Vehicle (1)	039 cm	cm	more
V0652	Field C3 - Case Vehicle (1)	047 cm	cm	more
V0653	Field C4 - Case Vehicle (1)	038 cm	cm	more
V0654	Field C5 - Case Vehicle (1)	038 cm	cm	more
V0655	Field C6 - Case Vehicle (1)	003 cm	cm	more

V0656	Direct Damage D Value = The Center of Direct Damage Offset t	+025 cm	Offset (cm)	more
V0657	Specific Event # Case(2)	1	Event number 1	more
V0658	Plane of Impact Case Vehicle (2)	1	Bumper	more
V0659	Direct Damage Length (DDL) - Case Vehicle (2)	078 cm	cm	more
V0660	Direct Damage MaximumCrush - Case Vehicle (2)	047 cm	cm	more
V0661	Direct and Induced Damage Length in CM	097 cm	cm	more
V0662	Field C1 - Case Vehicle (2)	027 cm	cm	more
V0663	Field C2 - Case Vehicle (2)	039 cm	cm	more
V0664	Field C3 - Case Vehicle (2)	047 cm	cm	more
V0665	Field C4 - Case Vehicle (2)	038 cm	cm	more
V0666	Field C5 - Case Vehicle (2)	038 cm	cm	more
V0667	Field C6 - Case Vehicle (2)	003 cm	cm	more
V0668	Direct Damage D Value = The Center of Direct Damage Offset t	+025 cm	cm	more
V0669	Specific Event # Cont(1)	9	Unknown	more
V0670	Plane of Impact Contacted Vehicle(1)	9	Unknown	more
V0671	Direct Damage Length (DDL) - Contacted Vehicle (1)	999	Unknown	more
V0672	Direct Damage Maximum Crush - Contacted Vehicle (1)	999	Unknown	more
V0673	Field L - Contacted Vehicle (1)	999	Unknown	more
V0674	Field C1 - Contacted Vehicle (1)	999	Unknown	more
V0675	Field C2 - Contacted Vehicle (1)	999	Unknown	more
V0676	Field C3 - Contacted Vehicle (1)	999	Unknown	more
V0677	Field C4 - Contacted Vehicle (1)	999	Unknown	more
V0678	Field C5 - Contacted Vehicle (1)	999	Unknown	more

V0679	Field C6 - Contacted Vehicle (1)	999	Unknown	more
V0680	Direct Damage D Value = The Center of Direct Damage Offset t	9999	offset (cm)	more
V0681	Specific Event # Contacted Vehicle (2)	9	Unknown	more
V0682	Plane of Impact Contacted Vehicle(2)	9	Unknown	more
V0683	Direct Damage Length (DDL) - Contacted Vehicle (2)	999	Unknown	more
V0684	Direct Damage Maximum Crush - Contacted Vehicle (2)	999	Unknown	more
V0685	Direct and Induced Damage Length in CM	999	Unknown	more
V0686	Field C1 - Contacted Vehicle (2)	999	Unknown	more
V0687	Field C2 - Contacted Vehicle (2)	999	Unknown	more
V0688	Field C3 - Contacted Vehicle (2)	999	Unknown	more
V0689	Field C4 - Contacted Vehicle (2)	999	Unknown	more
V0690	Field C5 - Contacted Vehicle (2)	999	Unknown	more
V0691	Field C6 - Contacted Vehicle (2)	999	Unknown	more
V0692	Direct Damage D Value = The Center of Direct Damage Offset t	9999	Offset (cm)	more

Case Vehicle Tires & Rims

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0701	Left Front Wheel Damaged	1	Yes	more
V0702	Right Front Wheel Damaged	0	No	more
V0703	Right Rear Wheel Damaged	0	No	more
V0704	Left Rear Wheel Damaged	0	No	more
V0705	Left Front Tire Tread Type	4	All Weather	more
V0706	Right Front Tire Tread Type	4	All Weather	more

V0707	Right Rear Tire Tread Type	4	All Weather	more
V0708	Left Rear Tire Tread Type	4	All Weather	more
V0709	Left Front Carcass Construction	3	Radial	more
V0710	Right Front Carcass Construction	3	Radial	more
V0711	Right Rear Carcass Construction	3	Radial	more
V0712	Left Rear Carcass Construction	3	Radial	more
V0713	Left Front Tire Condition Precrash	0	Normal - no pre-crash problems	more
V0714	Right Front Tire Condition Precrash	0	Normal - no pre-crash problems	more
V0715	Right Rear Tire Condition Precrash	0	Normal - no pre-crash problems	more
V0716	Left Rear Tire Condition Precrash	0	Normal - no pre-crash problems	more
V0717	Left Front Tire Condition Postcrash	2	Completely deflated	more
V0718	Right Front Tire Condition Postcrash	0	Normal - no damage to tire	more
V0719	Right Rear Tire Condition Postcrash	0	Normal - no damage to tire	more
V0720	Left Rear Tire Condition Postcrash	0	Normal - no damage to tire	more
V0721	Left Front Tire Involvement	0	No	more
V0722	Right Front Tire Involvement	0	No	more
V0723	Right Rear Tire Involvement	0	No	more
V0724	Left Rear Tire Involvement	0	No	more
V0725	Left Front Tire Size	225145R17	—	—
V0726	Right Front Tire Size	225145R17	—	—
V0727	Right Rear Tire Size	225145R17	—	—
V0728	Left Rear Tire Size	225145R17	—	—
V0729	Left Front Tire Pressure (recorded in psi)	00.0 psi	Actual tire pressure in psi	more
V0730	Right Front Tire Pressure (recorded in psi)	26.5 psi	Actual tire pressure in psi	more
V0731	Right Rear Tire Pressure (recorded in psi)	28.5 psi	Actual tire pressure in psi	more
	Left Rear Tire Pressure			

V0732	(recorded in psi)	27.0 psi	Actual tire pressure in psi	more
V0733	Left Front Tread Depth	09	09/32"	more
V0734	Right Front Tread Depth	09	09/32"	more
V0735	Right Rear Tread Depth	08	08/32"	more
V0736	Left Rear Tread Depth	08	08/32"	more

Case Vehicle Fuel Tank

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0801	Propulsive Fuel Type	1	Gasoline	more
V0802	Main Tank Location	232	Right of frame laterally - within/center vertically	more
V0803	Main Filler Cap Location	333	Right of frame laterally - above vertically	more
V0804	Main Tank Material	3	Plastic	more
V0805	Aux Tank Type	8	Not applicable (not equipped)	more
V0806	Aux Tank Location	888	Not applicable (not equipped)	more
V0807	Aux Filler Cap Location	888	Not applicable (not equipped)	more
V0808	Aux Tank Material	8	Not applicable	more

Case Vehicle Fuel Leakage

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0901	Fuel Leakage From Crash	0	No	more

Case Vehicle Fire

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1001	Fire In Or On Case Vehicle	0	No	more

Case Vehicle Exterior

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1101	Hood Latch Released	0	No	more
V1102	Hood Latch Damaged	1	Yes	more
		0		

V1103	Hood Latch Jammed		No	more
V1104	Left Hood Hinge Damaged	1	Yes	more
V1105	Left Hood Hinge Separated	0	No	more
V1106	Right Hood Hinge Damaged	1	Yes	more
V1107	Right Hood Hinge Separated	0	No	more
V1108	Hood Remained On Vehicle	1	Yes	more
V1109	Rear Hood Edge Elevated	1	Yes	more
V1110	Edge Contacted Windshield	0	No	more
V1111	Edge Penetrated Windshield	8	Not applicable	more
V1112	Hood Latch Location	1	Front of Vehicle	more
V1113	Eng/transmissn Mount Separated	0	No	more
V1114	Steering Column Flex Couplng	9	Unknown if equipped	more
V1115	Steering Column Coupling Dam	9	Unknown	more
V1116	Steering Column Coupling Separated	9	Unknown	more
V1117	Eng Comp Telescopng Unit	88	Not currently collected	more
V1118	Compartment Unit's Original/telescoped Length Difference	888	Not currently collected	more
V1119	Left Side Body Mount Separated	8	Not applicable (unitized)	more
V1120	Upper Left A-pillar Sep	0	No	more
V1121	Lower Left A-pillar Sep	0	No	more
V1122	Upper Left B-pillar Sep	8	Not applicable (not equipped)	more
V1123	Lower Left B-pillar Sep	0	No	more
V1124	Upper Left C-pillar Sep	8	Not applicable (not equipped)	more
V1125	Lower Left C-pillar Sep	8	Not applicable (not equipped)	more
V1126	Upper Left D-pillar Sep	8	Not applicable (not equipped)	more
V1127	Lower Left D-pillar Sep	8	Not applicable (not equipped)	more
V1128	Left Front Door Opening Cause	00	Door did not open	more
V1129	Left Rear Door Opening Cause	98	Not applicable (no left rear door)	more
V1130	Left Front Door Jammed Closed	0	No	more
V1131	Left Rear Door Jammed Closed	8	Not applicable (no left rear door)	more
V1132	Van Left Rear Door Type	8	Not applicable (not a van)	more

V1133	Left Front Glazing Availability	3	Partially open	more
V1134	Left Rear Glazing Availability	0	No glazing present	more
V1135	Lr2 Glazing Availability	0	No glazing present	more
V1136	Left Front Glazing Damage	0	No damage	more
V1137	Left Rear Glazing Damage	8	N/A	more
V1138	Lr2 Glazing Damage	8	Not Applicable (No Door)	more
V1139	Rear Door Type	0	No door (includes pickups)	more
V1140	Rear Door Opening Cause	8	Not applicable (no rear door)	more
V1141	Rear Door Jammed Closed	8	Not applicable (no rear door)	more
V1142	Rear Glazng Availability	8	Not Applicable (No Door)	more
V1143	Rear Glazing Damage	8	Not Applicable (No Door)	more
V1144	Luggage Partition Damaged	8	Not applicable	more
V1145	Spare Tire Status	8	Not collected	more
V1146	Trailer Hitch Type	0	No hitch	more
V1147	Trailer Type	0	No trailer	more
V1148	Rght Side Body Mount Separated	8	Not applicable (unitized)	more
V1149	Upper Right A-pillar Separated	0	No	more
V1150	Lower Right A-pillar Separated	0	No	more
V1151	Upper Right B-pillar Separated	8	Not applicable (not equipped)	more
V1152	Lower Right B-pillar Separated	0	No	more
V1153	Upper Right C-pillar Separated	8	Not applicable (not equipped)	more
V1154	Lower Right C-pillar Separated	8	Not applicable (not equipped)	more
V1155	Upper Right D-pillar Separated	8	Not applicable (not equipped)	more
V1156	Lower Right D-pillar Separated	8	Not applicable (not equipped)	more
V1157	Right Front Door Opening Cause	00	Door did not open	more
V1158	Right Rear Door Opening Cause	98	Not applicable (no right rear door)	more
V1159	Right Front Door Jammed Closed	0	No	more

V1160	Right Rear Door Jammed Closed	8	Not applicable (no right rear door)	more
V1161	Van Right-rear Door Type	8	Not applicable (not a van)	more
V1162	Right Front Glazing Availability	4	Fully open	more
V1163	Right Rear Glazing Availability	0	No glazing present	more
V1164	Rr2 Glazing Availability	0	No glazing present	more
V1165	Right Front Glazing Damage	0	No damage	more
V1166	Right Rear Glazing Damage	8	N/A	more
V1167	Rr2 Glazing Damage	8	Not Applicable (No Door)	more
V1168	Windshield Cracked	1	Yes	more
V1169	Windshield Broken	0	No Click for Windshield Damage figure	more
V1170	Occupant Cracked/Broke Wndshld	1	Yes	more
V1171	Bond Separation Extent	8	Not applicable	more
V1172	Windshield Code	97	Click for Windshield Mark figure	more
V1173	Did Sun Roof/T-Roof Open	8	Not Applicable	more

Case Vehicle Steering Column/Rim

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1201	Steering Wheel Rim Damage	1	Deformed slightly	more
V1202	Number of Steering Wheel Spokes	3	3 spokes	more
V1203	Steering Wheel Spoke Damage	0	None	more
V1204	Steering Wheel Hub Damage	0	None	more
V1205	Steering Wheel Location of Rim Damage	0	No damage	more
V1206	Aftermarket Add-on Device	0	None	more
V1207	Column Tilt Feature	1	Yes, equipped	more
V1208	Column Swing-away Feature	0	Not equipped	more
V1209	Column Telescoping Feature	0	Not equipped	more
V1210	Wheel Energy Absorb Device	8	Not currently collected	more
V1211	Wheel EA Device's original/damage Dimension Difference	888	Not collected	more

V1212	Column Energy Absorb Device	88	Not collected	more
V1213	Col EA Device's Orig/compressed (or Extruded) Length Diff	888	Not collected	more
V1214	Shear Capsule Separation	888	Not collected	more
V1215	Column Vertical Rotation	0	No apparent rotation	more
V1216	Column Lateral Rotation	0	No apparent rotation	more

Case Vehicle Intrusion

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1301	Was Occupant Compartment Intruded	1	Yes Click for Intrusion Worksheet figure Click for Intrusion figure	more
V1302	Was Intrusn Catastrophic	0	No	more
V1303	Intrusion Number #1	01	Intrusion #1	more
V1304	Occupant Space Number(1)	11	First row, Left seat	more
V1305	Intrud Component/obj (1)	08	A-pillar	more
V1306	Associate Event Numb (1)	1	Event #1	more
V1307	Maximum Intrusion X Axis	02 cm	Intrusion (cm)	more
V1308	Maximum Intrusion Y Axis	00 cm	0 cm or No Intrusion	more
V1309	Maximum Intrusion Z Axis	00 cm	0 cm or No Intrusion	more
V1310	Occupant Number #1 (1)	00	No contact or no intrusion	more
V1311	Injury Number #1 (1)	00	No injury or no intrusion	more
V1312	Occupant Number #2 (1)	00	No contact or no intrusion	more
V1313	Injury Number #2 (1)	00	No injury or no intrusion	more
V1314	Intrusion Number #2	02	Intrusion #2	more
V1315	Occupant Space Number(2)	11	First row, Left seat	more
V1316	Intrud Component/obj (2)	03	Toe pan	more
V1317	Associate Event Numb (2)	1	Event #1	more
V1318	Maximum Intrusion X Axis	06 cm	Intrusion (cm)	more
V1319	Maximum Intrusion Y Axis	00 cm	0 cm or No Intrusion	more
V1320	Maximum Intrusion Z Axis	00 cm	0 cm or No Intrusion	more
V1321	Occupant Number #1 (2)	01	Occupant number 1, contact	more
V1322	Injury Number #1 (2)	03	Injury #3	more
V1323	Occupant Number #2 (2)	00	No contact or no intrusion	more
V1324	Injury Number #2 (2)	04	Injury #4	more

V1325	Intrusion Number #3	03	Intrusion #3	more
V1326	Occupant Space Number(3)	12	First row, Center seat	more
V1327	Intrud Component/obj (3)	01	Instrument panel	more
V1328	Associate Event Numb (3)	1	Event #1	more
V1329	Maximum Intrusion X Axis	01 cm	Intrusion (cm)	more
V1330	Maximum Intrusion Y Axis	00 cm	0 cm or No Intrusion	more
V1331	Maximum Intrusion Z Axis	00 cm	0 cm or No Intrusion	more
V1332	Occupant Number #1 (3)	00	No contact or no intrusion	more
V1333	Injury Number #1 (3)	00	No injury or no intrusion	more
V1334	Occupant Number #2 (3)	00	No contact or no intrusion	more
V1335	Injury Number #2 (3)	00	No injury or no intrusion	more
V1336	Intrusion Number #4	04	Intrusion #4	more
V1337	Occupant Space Number(4)	13	First row, Right seat	more
V1338	Intrud Component/obj (4)	08	A-pillar	more
V1339	Associate Event Numb (4)	1	Event #1	more
V1340	Maximum Intrusion X Axis	01 cm	Intrusion (cm)	more
V1341	Maximum Intrusion Y Axis	00 cm	0 cm or No Intrusion	more
V1342	Maximum Intrusion Z Axis	00 cm	0 cm or No Intrusion	more
V1343	Occupant Number #1 (4)	00	No contact or no intrusion	more
V1344	Injury Number #1 (4)	00	No injury or no intrusion	more
V1345	Occupant Number #2 (4)	00	No contact or no intrusion	more
V1346	Injury Number #2 (4)	00	No injury or no intrusion	more
V1347	Intrusion Number #5	05	Intrusion #5	more
V1348	Occupant Space Number(5)	13	First row, Right seat	more
V1349	Intrud Component/obj (5)	03	Toe pan	more
V1350	Associate Event Numb (5)	1	Event #1	more
V1351	Maximum Intrusion X Axis	10 cm	Intrusion (cm)	more
V1352	Maximum Intrusion Y Axis	00 cm	0 cm or No Intrusion	more
V1353	Maximum Intrusion Z Axis	00 cm	0 cm or No Intrusion	more
V1354	Occupant Number #1 (5)	00	No contact or no intrusion	more
V1355	Injury Number #1 (5)	00	No injury or no intrusion	more
V1356	Occupant Number #2 (5)	00	No contact or no intrusion	more
V1357	Injury Number #2 (5)	00	No injury or no intrusion	more
V1358	Intrusion Number #6	99	Unknown or data not collected	more
V1359	Occupant Space Number(6)	99	Unknown or data not collected	more
V1360	Intrud Component/obj (6)	99	Unknown or data not collected	more
V1361	Associate Event Numb (6)	9	Unknown or data not collected	more
V1362	Maximum Intrusion X Axis	99	Unknown or data not collected	more

V1363	Maximum Intrusion Y Axis	99	Unknown or data not collected	more
V1364	Maximum Intrusion Z Axis	99	Unknown or data not collected	more
V1365	Occupant Number #1 (6)	99	Unknown or data not collected	more
V1366	Injury Number #1 (6)	99	Contact, injury unknown or data not collected	more
V1367	Occupant Number #2 (6)	99	Unknown or data not collected	more
V1368	Injury Number #2 (6)	99	Contact, injury unknown or data not collected	more
V1369	Intrusion Number #7	99	Unknown or data not collected	more
V1370	Occupant Space Number(7)	99	Unknown or data not collected	more
V1371	Intrud Component/obj (7)	99	Unknown or data not collected	more
V1372	Associate Event Numb (7)	9	Unknown or data not collected	more
V1373	Maximum Intrusion X Axis	99	Unknown or data not collected	more
V1374	Maximum Intrusion Y Axis	99	Unknown or data not collected	more
V1375	Maximum Intrusion Z Axis	99	Unknown or data not collected	more
V1376	Occupant Number #1 (7)	99	Unknown or data not collected	more
V1377	Injury Number #1 (7)	99	Contact, injury unknown or data not collected	more
V1378	Occupant Number #2 (7)	99	Unknown or data not collected	more
V1379	Injury Number #2 (7)	99	Contact, injury unknown or data not collected	more
V1380	Intrusion Number #8	99	Unknown or data not collected	more
V1381	Occupant Space Number(8)	99	Unknown or data not collected	more
V1382	Intrud Component/obj (8)	99	Unknown or data not collected	more
V1383	Associate Event Numb (8)	9	Unknown or data not collected	more
V1384	Maximum Intrusion X Axis	99	Unknown or data not collected	more
V1385	Maximum Intrusion Y Axis	99	Unknown or data not collected	more
V1386	Maximum Intrusion Z Axis	99	Unknown or data not collected	more
V1387	Occupant Number #1 (8)	99	Unknown or data not collected	more
V1388	Injury Number #1 (8)	99	Contact, injury unknown or data not collected	more
V1389	Occupant Number #2 (8)	99	Unknown or data not collected	more
V1390	Injury Number #2 (8)	99	Contact, injury unknown or data not collected	more
V1391	Intrusion Number #9	99	Unknown or data not collected	more
V1392	Occupant Space Number(9)	99	Unknown or data not collected	more
V1393	Intrud Component/obj (9)	99	Unknown or data not collected	more
V1394	Associate Event Numb (9)	9	Unknown or data not collected	more
V1395	Maximum Intrusion X Axis	99	Unknown or data not collected	more

V1396	Maximum Intrusion Y Axis	99	Unknown or data not collected	more
V1397	Maximum Intrusion Z Axis	99	Unknown or data not collected	more
V1398	Occupant Number #1 (9)	99	Unknown or data not collected	more
V1399	Injury Number #1 (9)	99	Contact, injury unknown or data not collected	more
V1400	Occupant Number #2 (9)	99	Unknown or data not collected	more
V1401	Injury Number #2 (9)	99	Contact, injury unknown or data not collected	more
V1402	Intrusion Number #10	99	Unknown or data not collected	more
V1403	Occupant Space Number (10)	99	Unknown or data not collected	more
V1404	Intrud Component/obj(10)	99	Unknown or data not collected	more
V1405	Associate Event Numb(10)	9	Unknown or data not collected	more
V1406	Maximum Intrusion X Axis	99	Unknown or data not collected	more
V1407	Maximum Intrusion Y Axis	99	Unknown or data not collected	more
V1408	Maximum Intrusion Z Axis	99	Unknown or data not collected	more
V1409	Occupant Number #1 (10)	99	Unknown or data not collected	more
V1410	Injury Number #1 (10)	99	Contact, injury unknown or data not collected	more
V1411	Occupant Number #2 (10)	99	Unknown or data not collected	more
V1412	Injury Number #2 (10)	99	Contact, injury unknown or data not collected	more
V1413	Intrusion Number (a)	88	Not Applicable	more
V1414	Cause Of Intrusion (a)	8	Not applicable	more
V1415	Intrusion Number (b)	88	Not Applicable	more
V1416	Cause Of Intrusion (b)	8	Not applicable	more
V1417	Intrusion Number (c)	88	Not Applicable	more
V1418	Cause Of Intrusion (c)	8	Not applicable	more
V1419	Intrusion Number (a)	88	Not Applicable	more
V1420	Damaged Component 1 (a)	8	Not Applicable	more
V1421	Damaged Component 2 (a)	8	Not Applicable	more
V1422	Intrusion Number (b)	88	Not Applicable	more
V1423	Damaged Component 1 (b)	8	Not Applicable	more
V1424	Damaged Component 2 (b)	8	Not Applicable	more
V1425	Intrusion Number (c)	88	Not Applicable	more
V1426	Damaged Component 1 (c)	8	Not Applicable	more
V1427	Damaged Component 2 (c)	8	Not Applicable	more
V1428	Intrusion Number (d)	88	Not Applicable	more
V1429	Damaged Component 1 (d)	8	Not Applicable	more
V1430	Damaged Component 2 (d)	8	Not Applicable	more

Case Vehicle Airbag(s)

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1501	Driver Airbag Equipped	1	Yes Click for Driver Airbag figure	more
V1502	Right Front Airbag Equip	1	Yes Click for Passenger Airbag figure	more
V1503	Left Rear Airbag Equipped	0	No	more
V1504	Right Rear Airbag Equipped	0	No	more
V1505	Driver Airbag Deployed	1	Yes	more
V1506	Rght Front Airbag Deploy	1	Yes	more
V1507	Left Rear Airbag Deploy	8	Not applicable (no airbag)	more
V1508	Rught Rear Airbag Deploy	8	Not applicable (no airbag)	more
V1509	Driver On/off Switch	0	Not equipped (no switch)	more
V1510	Rght Front On/off Switch	0	Not equipped (no switch)	more
V1511	Left Rear On/off Switch	8	Not applicable (no airbag)	more
V1512	Right Rear On/off Switch	8	Not applicable (no airbag)	more
V1513	Driver Airbag Location	1	Steering wheel	more
V1514	Right Front Airbag Location	2	Top instrument panel	more
V1515	Left Rear Airbag Location	0	No airbag	more
V1516	Right Rear Airbag Location	0	No airbag	more
V1517	Driver Airbag Condition	0	No damage	more
V1518	Right Front Airbag Condition	0	No damage	more
V1519	Left Rear Airbag Condition	8	Not applicable (not equipped / not deployed)	more
V1520	Right Rear Airbag Condition	8	Not applicable (not equipped / not deployed)	more
V1521	Driver Airbag Tether	0	No	more
V1522	Right Front Airbag Tether	0	No	more
V1523	Left Rear Airbag Tether	8	Not applicable	more
V1524	Right Rear Airbag Tether	8	Not applicable	more
V1525	Driver Marked By Contact	1	Yes	more
V1526	Right Front Marked By Contact	0	No	more
V1527	Left Rear Marked By Contact	8	Not applicable (no airbag / not deployed)	more
V1528	Right Rear Marked By Contact	8	Not applicable (no airbag / not deployed)	more
V1529	Driver Module Type	2	I-pattern flaps	more
		3		

V1530	Right Front Module Type		U-pattern flaps	more
V1531	Left Rear Module Type	0	No airbag present	more
V1532	Right Rear Module Type	0	No airbag present	more
V1533	Driver Module Cover Dam.	1	Flaps not damaged / marked	more
V1534	Right Front Module Cover Dam.	1	Flaps not damaged / marked	more
V1535	Left Rear Module Cover Dam.	0	No airbag	more
V1536	Right Rear Module Cover Dam.	0	No airbag	more
V1537	Driver Airbag Type	1	Original equipment	more
V1538	Right Front Airbag Type	1	Original equipment	more
V1539	Left Rear Airbag Type	0	No airbag	more
V1540	Right Rear Airbag Type	0	No airbag	more
V1541	Driver Airbag Vents	2	Vents present	more
V1542	Right Front Airbag Vents	2	Vents present	more
V1543	Left Rear Airbag Vents	0	No airbag	more
V1544	Right Rear Airbag Vents	0	No airbag	more
V1545	Driver Knee Bolster Equipped	1	Yes	more
V1546	Right Front Knee Bolster Equipped	1	Yes	more
V1547	Left Rear Knee Bolster Equipped	0	No	more
V1548	Right Rear Knee Bolster Equipped	0	No	more
V1549	Driver Knee Bolster Deploy	1	Yes	more
V1550	Right Front Knee Bolster Deploy	1	Yes	more
V1551	Left Rear Knee Bolster Deploy	8	Not applicable (no airbag)	more
V1552	Right Rear Knee Bolster Deploy	8	Not applicable (no airbag)	more
V1553	Left Front Number of Tethers	8	Not applicable (no airbag)	more
V1554	Left Front Number of Vents	1	Vents	more
V1555	Right Front Number of Tethers	8	Not applicable (no airbag)	more
V1556	Right Front Number of Vents	2	Vents	more
V1557	Left Rear Number of Tethers	8	Not applicable (no airbag)	more
V1558	Left Rear Number of Vents	8	Not applicable (no airbag)	more
	Right Rear Number of			

V1559	Tethers	8	Not applicable (no airbag)	more
V1560	Right Rear Number of Vents	8	Not applicable (no airbag)	more

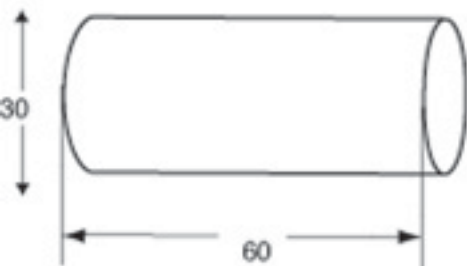
Case Vehicle Interior

[Back to Top](#)

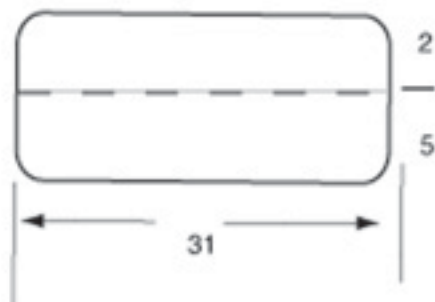
Variable Number	Variable Name	Code Value	Code Description	Other Options
V1601	Left Front Door Damaged	3	No, occupant contact	more
V1602	Right Front Door Damaged	0	No	more
V1603	Left Front Hardware Damaged	0	No	more
V1604	Right Front Hardware Damaged	0	No	more
V1605	Left Front Armrest Damaged	0	No	more
V1606	Right Front Armrest Damaged	0	No	more
V1607	Left Front Glass Damaged	0	No	more
V1608	Right Front Glass Damaged	0	No	more
V1609	Left Rear Door Area Damaged	8	Not applicable	more
V1610	Right Rear Door Area Damaged	8	Not applicable	more
V1611	Left Rear Hardware Damaged	8	Not applicable	more
V1612	Right Rear Hardware Damaged	8	Not applicable	more
V1613	Left Rear Armrest Damaged	8	Not applicable	more
V1614	Right Rear Armrest Damaged	8	Not applicable	more
V1615	Left Rear Glass Damaged	8	Not applicable	more
V1616	Right Rear Glass Damaged	8	Not applicable	more
V1617	Left Roof Side Rail Damaged	8	Not applicable	more
V1618	Right Roof Side Rail Damaged	8	Not applicable	more
V1619	Left B-pillar Damaged	8	Not applicable	more
V1620	Right B-pillar Damaged	8	Not applicable	more
V1621	Left C-pillar Damaged	8	Not applicable	more
V1622	Right C-pillar Damaged	8	Not applicable	more

Knee bolster airbag
Driver

Knee bolster airbag



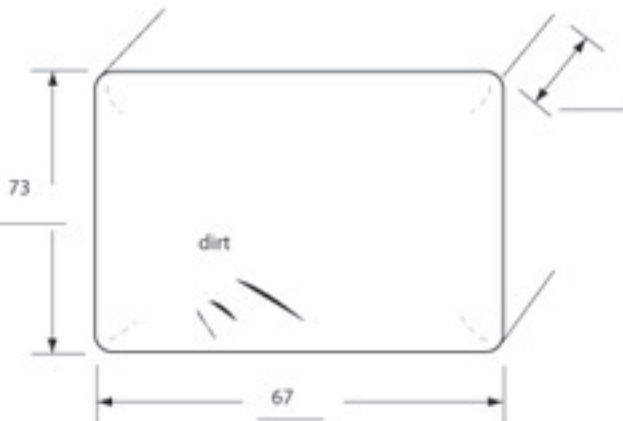
module cover



Vents: Y ☒ N
if yes, how many: _____

Tethers: Y ☒ N
if yes, how many: _____

Passenger Airbag



Passenger Airbag Doors

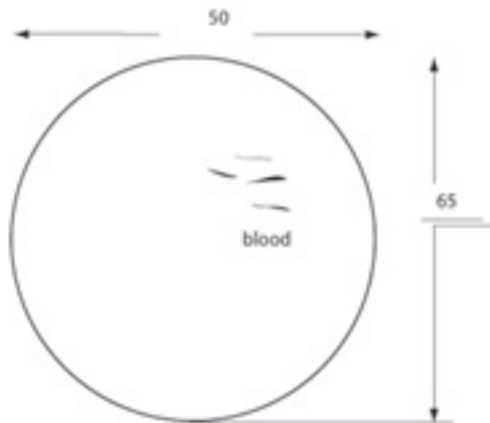
Single Door



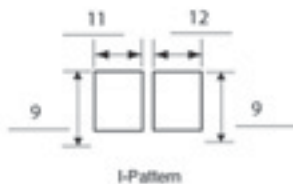
Vents: ☒ Y ☐ N 2
if yes, how many: _____

Tethers: Y ☒ N
if yes, how many: _____

AIRBAG NUMBER ON DRIVER SIDE:

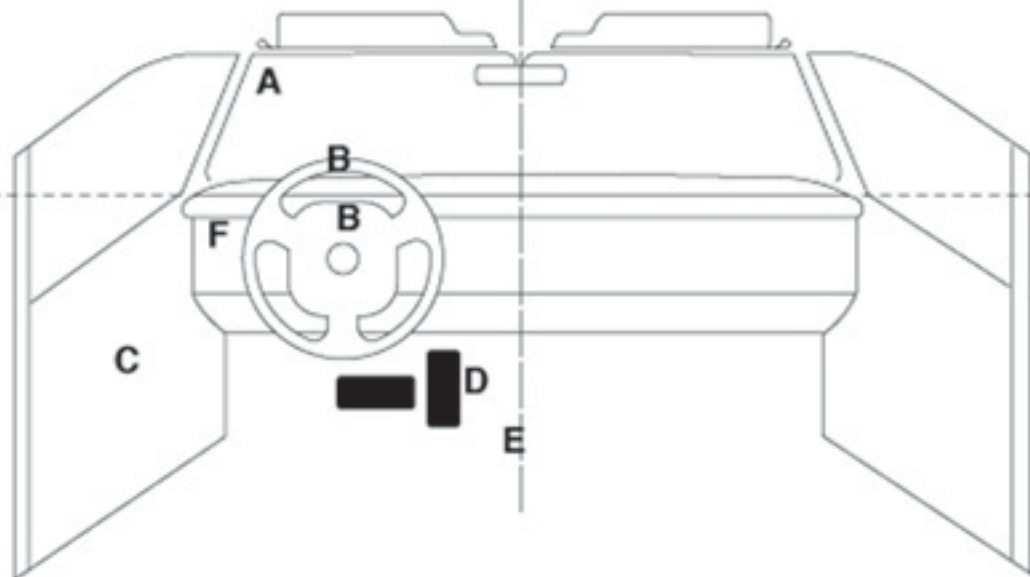


Driver Airbag Doors



Vents: ☒ Y ☐ N
 if yes, how many: 1

Tethers: Y ☒ N
 if yes, how many:



A = Windshield, spiderweb crack

B = Steering-wheel rim and hub, scuffmarks

C = Driver door, foreign deposits and blood

D = Accelerator pedal, broken and displaced

E = Center console, bloodstains

F = Vent on upper IP, broken

1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

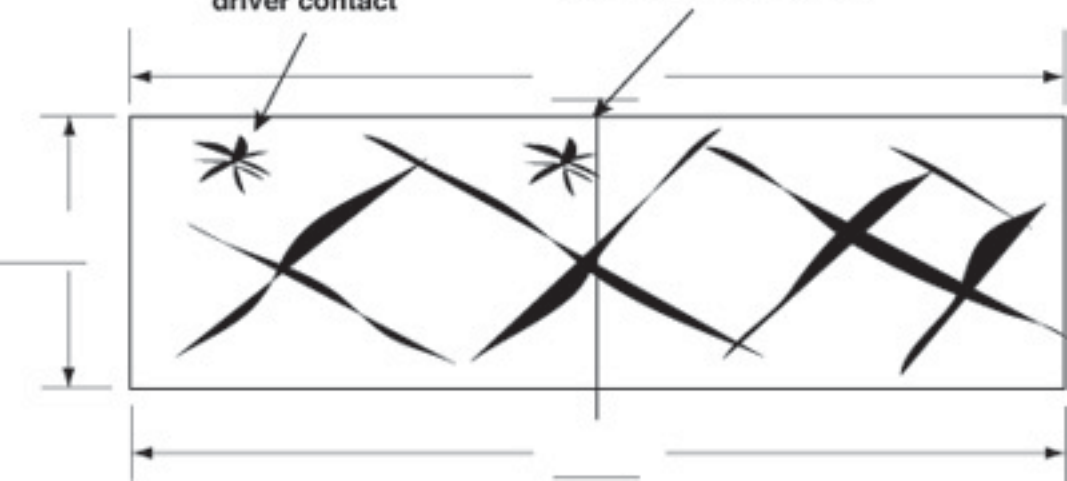
Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)					Dominant Crush Direction
		Comparison Value	–	Intruded Value	=	Intrusion	
11	A-pillar	92	–	90	=	2	Rear
11	Toepan	70	–	64	=	6	Rear
12	Instrument panel	85	–	84	=	1	Rear
13	A-pillar	92	–	91	=	1	Rear
13	Toepan	70	–	60	=	10	Rear

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Windshield	1	Head	Spiderweb crack	1
B	Steering-wheel rim and hub	1	Unknown	Scuffmarks	3
C	Driver door	1	Unknown	Foreign deposits and blood	3
D	Accelerator pedal	1	Foot	Broken and displaced	1
E	Center console	2	Unknown	Bloodstains	2
F	Vent on left side of IP	1	Unknown	Broken	1
G					
H					
I					
J					
K					
L					

driver contact

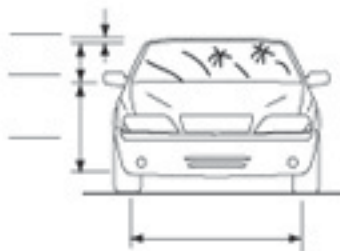
rearview mirror contact



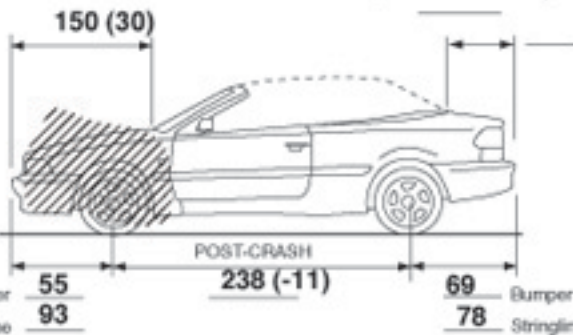
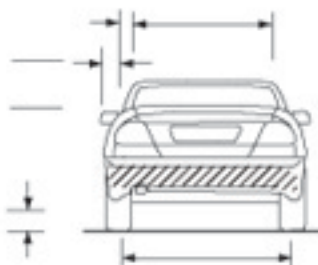
WINDSHIELD MARK ON CASE VEHICLE:



MEASUREMENTS IN CENTIMETERS

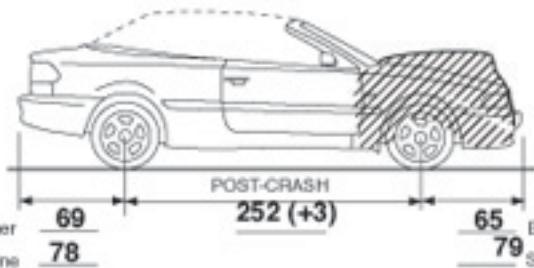


Original
Bumper Height



Bumper corner
Stringline

Bumper corner
Stringline

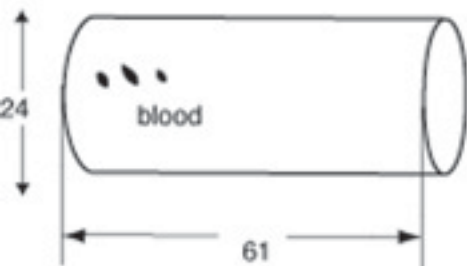


Bumper corner
Stringline

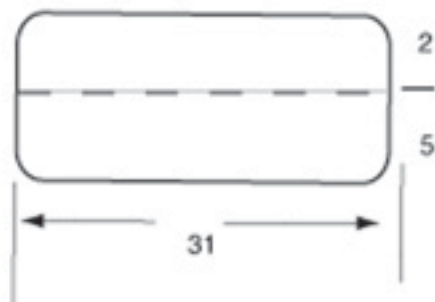
Bumper corner
Stringline

Knee bolster airbag
Right front

Knee bolster airbag



module cover



Vents: Y ☒ N
if yes, how many: _____

Tethers: Y ☒ N
if yes, how many: _____

PASS







DR











6+UMQ<ASCI

737703366124































524 >PA 6.6+UMQ< ASCI

INSTRUCTIONS

377031

703189524



>PA 6.6+UMQ< ASCII



703189524









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